

4/34/2 DIALOG(R)File 351:Derwent WPI (c) 2006 Thomson Derwent. All rts. reserv.

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Protection device, e.g. for boiler - includes expansion tank  
with diaphragm formed by flexible hose surrounded by pressure  
reservoir

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Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2274704	A	19940803	GB 941350	A	19940125	199428 B
DE 4302356	A1	19940804	DE 4302356	A	19930128	199430
DE 4302356	C2	19950518	DE 4302356	A	19930128	199524

Priority Applications (No Type Date): DE 4302356 A 19930128

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2274704	A		8	F24D-003/10	
DE 4302356	A1		3	F24D-003/10	
DE 4302356	C2		4	F24D-003/10	

Abstract (Basic): GB 2274704 A

The device comprises a piece of pipe between a cold water line  
and  
a pressure resistant boiler at the inlet side of which a back flow  
preventer is provided. It comprises a safety valve which is  
arranged  
downstream as well as a diaphragm expansion. The piece of pipe (28)  
is  
provided with openings (26) and the diaphragm of the expansion tank  
consists of a flexible hose (24) which is fitted onto the piece of  
pipe  
(28) and is surrounded by a pressure storage reservoir (30).

The pressure storage reservoir (30) with a flange (38) clamps  
the  
hose (24) between itself and the piece of pipe (28).

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Abstract (Equivalent): DE 4302356 C

The device has an expansion vessel having a membrane and a pipe  
piece, on the input side of which a backflow preventer and a  
downstream  
safety valve are arranged. The pipe piece (28) is provided with  
breakthroughs (26).

The membrane of the expansion vessel comprises a flexible hose  
(24), which is drawn onto the pipe piece and is surrounded by a  
pressure accumulator housing (30). The pressure accumulator housing  
with a flange (38) tensions the hose between itself and the pipe  
piece.

USE/ADVANTAGE - For installation in a cold water conduit  
connected  
to a pressure-proof hot water heater. Does not present the  
disadvantages of a dead water space.

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Derwent Class: Q74

International Patent Class (Main): F24D-003/10